

Phalaenopsis lobbii (Rchb. f.) H. R. Sweet, a new record of Orchidaceae from Yunnan, China

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Abstract *Phalaenopsis lobbii* (Rchb. f.) H. R. Sweet, a newly recorded species of Orchidaceae from China, is described. This species resembles *Phalaenopsis gibbosa* and *Phalaenopsis parishii*, but differs by having white flowers, not zigzag rachis and an irregular-subdenticulate callus between the two side-lobes of the lip.

Key words *Phalaenopsis*, *Phalaenopsis lobbii*, Orchidaceae, new record, China.

During conducting the program on “Introduction and Preservation of Tropical Plant Germplasm and Research on Plant Resource” in Xishuangbanna Tropical Botanical Garden, J. Y. Gao et al. found an orchid species in Lincang, Southwestern Yunnan, May 2001. This species is epiphytic on the trunk in sparse woods at 600 m, and collected in the Xishuangbanna Tropical Botanical Garden as yet. The species is found as a new record to the Flora Reipublicae Popularis Sinicae (Tsi, 1999) and here reported.

Phalaenopsis lobbii (Rchb. f.) H. R. Sweet, Genus *Phalaenopsis* 53. 1980.—*P. parishii* Rchb. f. var. *lobbii* Rchb. f. in W. W. Saunders, Refug. Bot. 2: t. 85. 1870.—*P. decumbens* (Griff.) Holttum var. *lobbii* (Rchb. f.) P. F. Hunt, Amer. Orchid Soc. Bull. 40: 1094. 1971.—*Polychilos lobbii* (Rchb. f.) Shim, Malayan Nat. J. 36: 24. 1982.

洛氏蝴蝶兰 新拟 Figs. 1, 2

Epiphytic plants. Aerial roots flattened, fleshy, glabrous, green, up to 30 cm long. Stem short, completely enclosed by imbricate leaf sheaths. Leaves sub-basal, thin, slightly fleshy, 3–5, usually 2 at flowering time, all deciduous or sometimes leaving 1–2 in winter, largely elliptic, 9–11 × 3.5–4 cm, obliquely notched at apex. Inflorescence racemose, slender, shorter than the leaves, laxly with 2 to 6 flowers. Peduncle green, with 2–4 membranous sheaths. Rachis suberect. Bracts small, elliptic, obtuse. Pedicel and ovary pale yellow-green, 1–1.5 cm long. Flowers fully open, almost 1.5 cm across, sepals and petals creamy-white, mid-lobe of lip with two chestnut-rusty vertical bands, column white; dorsal sepal oblong-elliptic, 8 × 5 mm, apex obtuse. Lateral sepals obliquely ovate or sub-orbicular, 6 × 4 mm, obtuse. Petals cuneate or narrowly obovate, 7 × 3 mm, apex obtuse or rounded. Lip shortly clawed, adnate to the column foot, three-lobed, side-lobes erect, falcate, acute, 3 × 1 mm; mid-lobe broadly triangular, fleshy, concave, apex rounded, 6 × 10 mm; appendage at base of mid-lobe is semi-circular, fleshy, irregularly denticulate; disc of lip with 4 filiform segments (at junction of mid- and side-lobes); column short, slightly curved, 4–5 mm long, based with a foot 1–2 mm long. Pollinia 2, unevenly cleft. Fl. Apr.–May.

China. Yunnan (云南): Lincang (临沧), epiphytic on trees in sparse woods, alt. 600 m, 2001-05-15, J. Y. Gao et al. (高江云) 114619 (HITBC).

Phalaenopsis lobbii, a species distributed in India, Bhutan, Myanmar and Vietnam, is

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similar to *P. gibbosa* H. R. Sweet and *P. parishii* Rchb. f., but it is not difficult to distinguish them. *Phalaenopsis lobbii* has white flowers and not zigzag rachis, but *P. gibbosa* is with greenish sepals and petals towards the apices and zigzag rachis; the transverse semicircular plate of the callus in *P. lobbii* is irregular-subdenticulate, whereas that of the *P. parishii* is long-fimbriate (Christenson, 2001).



Fig. 1. A photo of the plant with flowers.



Fig. 2. A photo of the flower.

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References

Christenson E A. 2001. *Phalaenopsis*: a monograph. Portland: Timber Press. 67–75.
Tsi Z-H (吉占和). 1999. *Phalaenopsis* Bl. In: Flora Reipublicae Popularis Sinicae (中国植物志). Beijing: Science Press. 19: 373–379.

中国兰科蝴蝶兰属一新记录种——洛氏蝴蝶兰

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摘要 报道了中国兰科Orchidaceae植物一新记录种——洛氏蝴蝶兰*Phalaenopsis lobbii* (Rchb. f.) H. R. Sweet.。它与*P. gibbosa*、*P. parishii*非常相似, 但本种的花白色, 不具“Z”字形花序轴, 可以区别于前者; 唇瓣上两侧裂片之间的横向半圆形附属物边缘具不规则细锯齿可以区别于后者。
关键词 蝴蝶兰属; 洛氏蝴蝶兰; 兰科; 新记录; 中国